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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-------------|----------------------|----------------------------|------------------|
| 10/506,302 | 09/01/2004 | Hiroyuki Ishihara | 89277-0039 | 3222 |
| 26021 7590 04/12/2007 HOGAN & HARTSON L.L.P. 1999 AVENUE OF THE STARS SUITE 1400 LOS ANGELES, CA 90067 | | | EXAMINER NGUYEN, HANH N | |
| | | | ART UNIT 2834 | PAPER NUMBER |
| SHORTENED STATUTORY PERIOD OF RESPONSE | | MAIL DATE | DELIVERY MODE | |
| 3 MONTHS | | 04/12/2007 | PAPER | |

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

TH

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|------------------------------|------------------------|---------------------|--|
| Office Action Summary | Application No. | Applicant(s) | |
| | 10/506,302 | ISHIHARA ET AL. | |
| | Examiner | Art Unit | |
| | Nguyen N. Hanh | 2834 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on Amendments filed on 2/5/07.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 7-14, 16-23 and 25 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 7, 9, 10, 12-14, 16-21, 23 and 25 is/are rejected.
- 7) ☐ Claim(s) 8, 11, 20 and 22 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 01 September 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

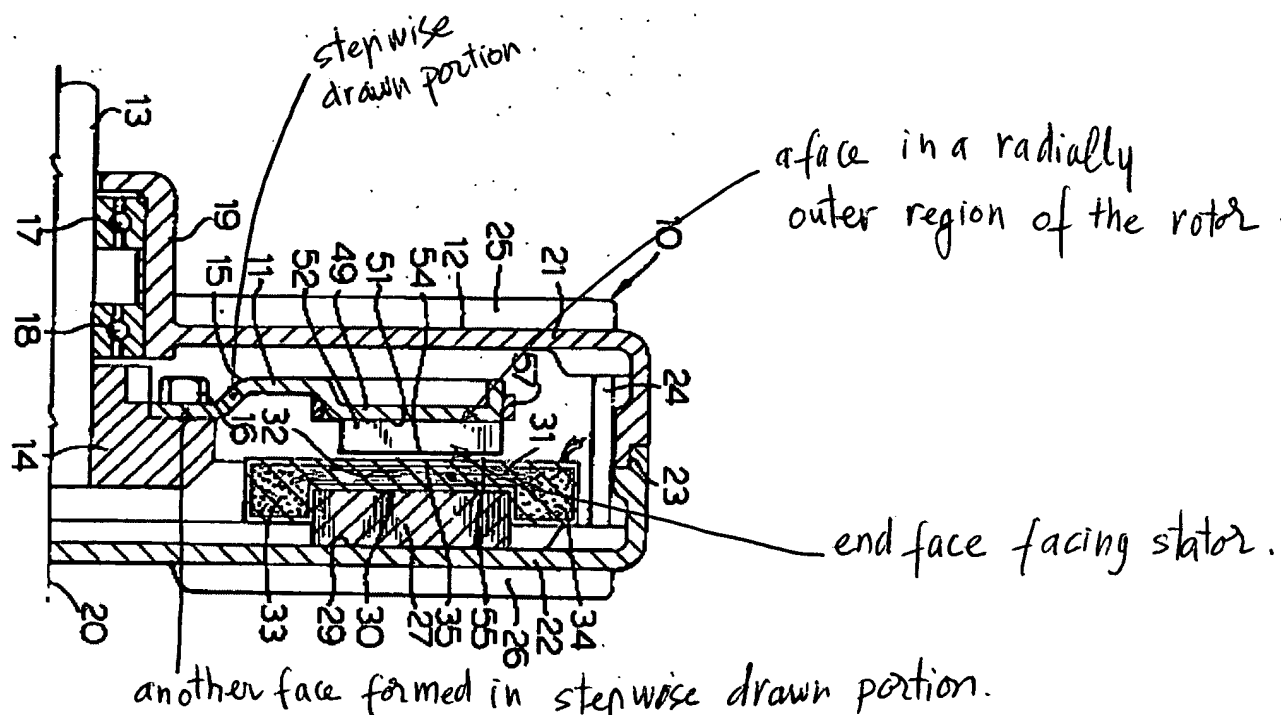
A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 7, 9, 10, 12, 14, 16, 17, 21, 23 and 25 are rejected under 35

U.S.C. 102(b) as being anticipated by Whiteley (US 3,999,092).

Regarding claim 7, Whiteley discloses a rotary electric machine comprising: a case (21 and 22 in Fig. 1); bearing provided in a case (17, 18); a stator (27) fixed to the case; and a rotor (14) rotated by electromagnetic energy from the stator, wherein the rotor includes: magnetic poles having one end face facing the stator and another end face attached to a face in a radially outer region of the rotor; a stepwise drawn portion concentric with the one end face; and a drawn (the method of forming the device is not germane to the issue of patentability of the device itself, therefore, this limitation has not been given patentable weight) shaft portion (13) located on a rotational axis of the rotor and being inserted into and supported by the bearings, wherein the face in the radially outer region of the rotor is formed perpendicular to the rotational axis of the rotor, and another face perpendicular to the rotational axis of the rotor is formed in the stepwise drawn portion (please see markups) or the shaft portion.



Regarding claim 9, Whiteley also discloses a rotary electric machine wherein a magnetic pole-carrying face, the stepwise drawn portion and the shaft portion are formed integral with each other (Fig. 1).

Regarding claim 10, Whiteley also discloses a rotary electric machine wherein a female thread is formed in the another perpendicular face (by bolt 16).

Regarding claim 12, Whiteley also discloses a rotary electric machine wherein the female thread is formed in a plurality around the rotational axis at regular intervals.

Regarding claims 14 and 23, Whiteley also discloses a rotary electric machine wherein the stator (27 in Fig. 1) includes a plurality of coils (31).

Regarding claims 16 and 25, Whiteley also discloses a rotary electric machine wherein the shaft portion (13 in Fig. 1) is cylindrical.

Regarding claim 17, Whiteley also discloses a rotary electric machine wherein the plurality of coils includes a core (27) and a winding (31).

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Regarding claim 21, Whiteley also discloses a rotary electric machine comprising: a case (21 and 22 in Fig. 1); bearing provided in a case (17, 18); a stator (27) fixed to the case; a rotor (14) rotated by electromagnetic energy from the stator; wherein the rotor has in its radially outer region a magnetic pole-carrying face that is perpendicular to the rotational axis of the rotor, a stepwise drawn portion concentric with the magnetic pole-carrying face, and a drawn (the method of forming the device is not germane to the issue of patentability of the device itself, therefore, this limitation has not been given patentable weight) shaft portion (13), on a rotational axis of the rotor, formed in its radially inner region, the shaft portion being inserted into and supported by the bearings and the stepwise drawn (please see markups) portion being formed with a face perpendicular to the rotational axis; and a female thread formed in the perpendicular face.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Whiteley in view of Takase.

Regarding claim 13, Whiteley shows all limitations of the claimed invention except showing a rotary electric machine wherein the stepwise drawn portion is pressed against a bearing on the stator into which the shaft portion is inserted.

However, Takase discloses a rotary electric machine wherein the stepwise drawn portion is pressed against a bearing on the stator into which the shaft portion is inserted (Fig. 2) for the purpose of reducing cost (abstract).

Since Whiteley and Takase are in the same field of endeavor, the purpose disclosed by Takase would have been recognized in the pertinent art of Whiteley.

It would have been obvious at the time the invention was made to a person having an ordinary skill in the art to modify Whiteley by forming the stepwise drawn portion pressing against a bearing on the stator into which the shaft portion is inserted as taught by Takase for the purpose of reducing cost.

3. Claims 18 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Whiteley in view of Mizutani.

Regarding claim 18, Whiteley shows all limitations of the claimed invention except showing a rotary electric machine wherein the core and the winding are disposed in a circle and molded with a resin.

However, Mizutani discloses a rotary electric machine wherein the core and the winding are disposed in a circle and molded with a resin (Fig. 1) for the purpose of improving cooling of the machine (Col. 4, lines 5-9).

Since Whiteley and Mizutani are in the same field of endeavor, the purpose disclosed by Mizutani would have been recognized in the pertinent art of Whiteley.

It would have been obvious at the time the invention was made to a person having an ordinary skill in the art to modify Whiteley by disposing the core and the

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winding in a circle and molding with a resin as taught by Mizutani for the purpose of improving cooling of the machine.

Regarding claim 19, Mizutani also discloses a rotary electric machine in his prior art the stator includes an encoder board (Col. 2, lines 57-64).

Response to Arguments

4. Applicant's arguments with respect to claims 7 and 21 have been considered but are moot in view of the new ground(s) of rejection.

Allowable Subject Matter

5. Claims 8, 11, 20 and 22 are objected to as being dependent upon a rejected base claim, but would be allowable if claims 8, 11 and 22 are rewritten in independent form including all of the limitations of the base claim and any intervening claims.

6. The following is a statement of reasons for the indication of allowable subject matter:

Regarding claims 8 and 22, the prior art of record does not show a rotary electric machine as described in claims 7 and 21 wherein space for a one-way clutch to be housed is formed by the stepwise drawn portion

Regarding claims 11, the prior art of record does not show a rotary electric machine as described in claims 7 and 11 wherein the female thread is formed on the rotational axis.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Information on How to Contact USPTO

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hanh N Nguyen whose telephone number is (571) 272-2031. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg, can be reached on (571) 272-2044. The fax phone numbers for the organization where this application or proceeding is assigned are (571) 273-8300 for regular communications and (571) 273-8300 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

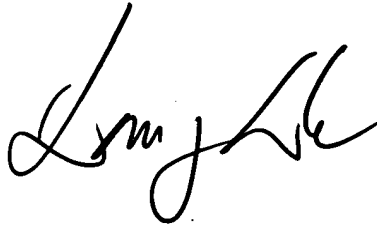
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HNN

April 7, 2007

A handwritten signature in black ink, appearing to read "Dangle", written in a cursive style.

DANGLE
PRIMARY EXAMINER